



RAPISOL®

Designed for Fast Release and Chewable Softgels

RAPISOL®

- Fast release of the fill
- Reliable capsule dissolution regardless of shelf-life
- Highly relevant for applications where consumers expect quick relief: painkillers, allergy treatments, sleep aids and more

RAPISOL® Chewable

- Desirable chew and texture
- Fast dissolving of the shell after burst
- Brilliantly clear softgels
- Easy to formulate, processable on standard softgel equipment
- Easy to consume – no water needed

GELITA

RAPISOL®

Taking softgel delivery to the next level

Consumers want fast and effective results for immediate relief, especially when it comes to Rx, Gx or OTC products such as pain medication, cough and cold formulas, and even H&N remedies. GELITA's innovative RAPISOL® gelatin features 3x faster fill release compared to standard softgel capsules, delivering clear distinction in the market.

RAPISOL® consists of pure gelatin that meets pharmaceutical standards and is processable with standard softgel equipment. The GELITA Pharma Institute (GPI) provides formulation guidance, thus supporting and accelerating your product development.

BENEFITS OF RAPISOL®

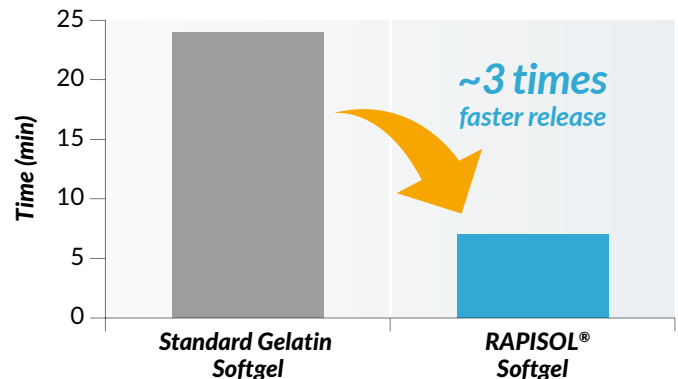
- Promotes consumer compliance (speed of delivery)
- Faster fill release
- Improved shelf-life stability
- 100 % gelatin
- Different raw materials available
- Designed for Rx, Gx, OTC and H&N products

Rapid release regardless of shelf-life

All fresh gelatin capsules typically show good dissolution. However, fresh softgels made from RAPISOL® provide even faster fill release compared to standard gelatin. Within five minutes in simulated gastric fluid, approximately 80% of the fill is released.

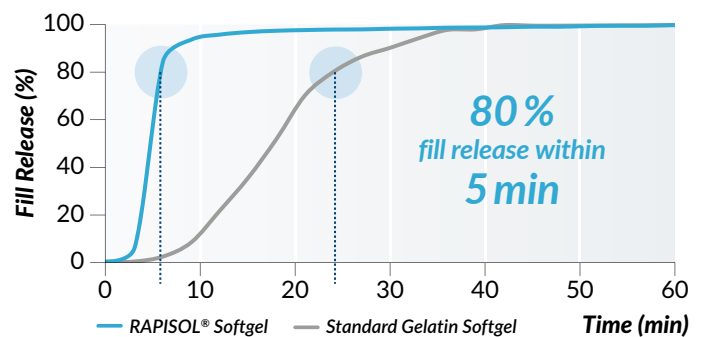
Studies reveal that softgels made from standard gelatin demonstrate a noticeable delay in fill release after six months of accelerated storage, while RAPISOL® provides a release profile identical to that of fresh softgel capsules under the same conditions. This makes RAPISOL® highly relevant for applications where consumers expect fast relief: painkillers, allergy treatments, sleep aids and more.

RAPISOL® vs. Standard Gelatin, fill release in fresh Softgels

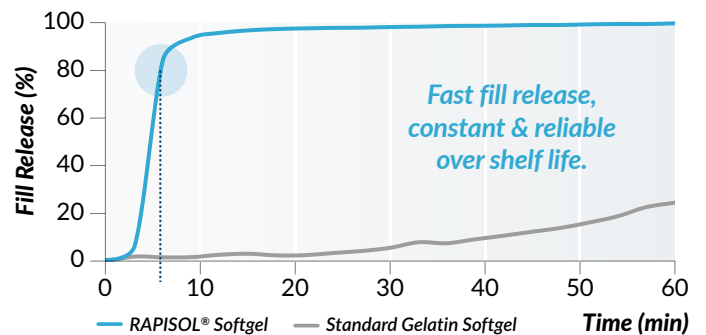


RAPISOL® vs Standard Gelatin, Stability Studies Show Accelerated Fill Release

Fresh Softgels



Softgels stored for 6 months (40°C/75% r.h.)



RAPISOL® softgels show excellent performance even under extreme storage conditions. Fill release in standard softgels is substantially slowed.

RAPISOL®

Proven platform for fast release applications

RAPISOL® is suitable for a wide range of Rx, Gx, OTC and H&N applications where consumers demand immediate results. From pain relief to energy support, the following examples illustrate the breadth of categories that benefit from RAPISOL®'s fast and consistent release profile.

FILL SYSTEM EXAMPLES

CONSUMER BENEFITS

Ibuprofen, acetaminophen, naproxen

Fast pain relief

Paracetamol, dextromethorphan, doxylamine

Rapid relief of cough & cold symptoms

Caffeine, guarana oil, MCT oil

Fast energy & focus boost

Melatonin

Fast-acting sleep support

Ginger oil

Quick digestive comfort

Diphenhydramine

Allergy treatment



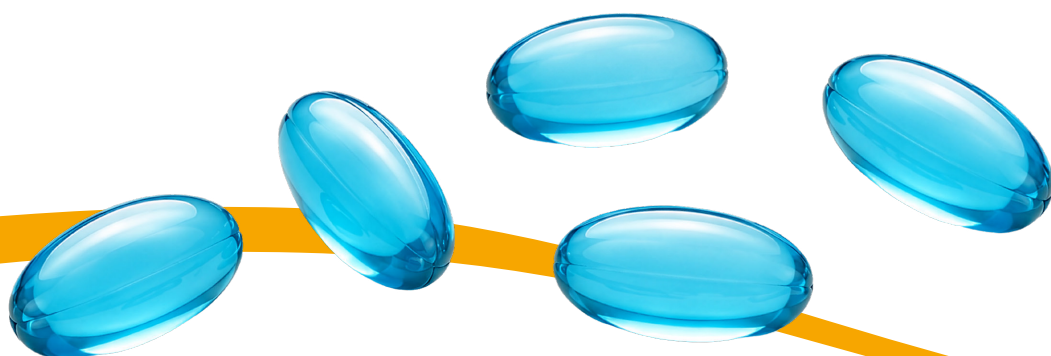
RAPISOL® Gelatin

Types, pharmaceutical grade

RAW MATERIAL	Name of Gelatin Bloom, Type*	Gel Strength Bloom [g]	Viscosity 6.67%/60 °C [mPas]	GELITA Production Country
BOVINE BONE	RAPISOL® Bovine Bone Gelatin, 105 Bloom, Type B	84 - 126	1.5 - 2.5	Germany
PORCINE SKIN	RAPISOL® Porcine Skin Gelatin, 105 Bloom, Type A	84 - 126	1.5 - 2.5	Germany
BOVINE BONE	RAPISOL® Bovine Bone Gelatin, 105 Bloom, Type B	84 - 126	1.5 - 2.5	China
BOVINE BONE	RAPISOL® Bovine Bone Gelatin, 105 Bloom, Type B	84 - 126	1.5 - 2.5	US

CDMF
available

*Pretreatment: A (Acidic) or B (Basic)



RAPISOL® Chewable

Fast release in a pleasant, easy-to-enjoy format

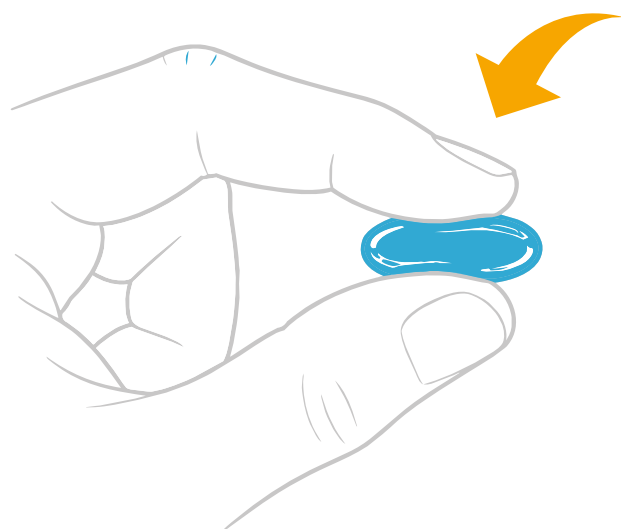
Enjoyable, convenient supplement formats are on the rise. Softgels made with RAPISOL® Chewable combine the high active-loading capacity and fill protection of a traditional softgel with the pleasant, easy-to-consume experience of a gummy, thus presenting new formulation possibilities for oily and paste-like fills.

BENEFITS OF RAPISOL® CHEWABLE

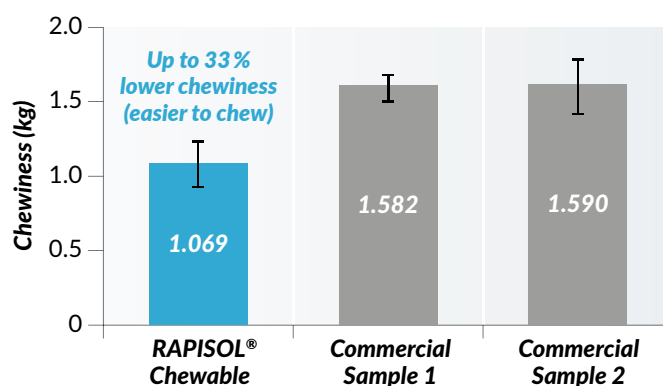
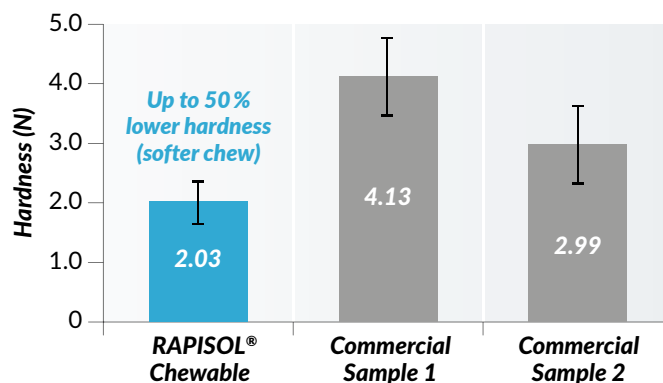
- Pleasant to chew and swallow without water
- Fast-dissolving shell
- Allows for high ingredient loads
- Various flavors can be easily incorporated into the shell formulation
- Brilliantly clear

Unrivalled chew, mouthfeel and texture

RAPISOL® Chewable Softgels offer a fast-dissolving shell, soft chew and pleasing mouthfeel. Compared to commercially available alternatives, they require less bite force and are therefore easier to chew. Beyond fills based on high-quality oils, manufacturers can also use paste-like fills, bringing chewiness and mouthfeel closer to that of confectionary formats.



Benchmark Testing: RAPISOL® Chewable Compared to Commercial Omega-3 Chewables



Chewiness explained

Chewiness is defined in literature as “the force required to chew a solid material until it reaches a state suitable for swallowing”. Therefore, the lower the chewiness, the less force is needed to chew the capsule, making it swallowable sooner than a capsule that is more chewy.

Take advantage of new business opportunities

RAPISOL® Chewable is 100 % gelatin and can be processed on standard softgel equipment, allowing manufacturers to convert excess softgel capacity into new, profitable business opportunities.

- *Flexible formulation and easy processing*
- *Simplified handling with a single hydrocolloid*
- *Compatible with a wide range of fill systems*

Meeting evolving consumer preferences

Nearly one-third of global consumers now prefer on-the-go supplement formats such as gummies, soft chews and liquids.



Innova Trends Survey 2026

RAPISOL® Chewable

Unlocking new formats for established actives

RAPISOL® Chewable extends proven softgel technology into a chewable format, enabling manufacturers to reposition established actives for consumers seeking enjoyable, on-the-go delivery. Formulations with RAPISOL® Chewable work for various fill systems and are not limited to lipophilic fills. The examples below highlight the range of applications made possible with this new format.

FILL SYSTEM EXAMPLES

CONSUMER BENEFITS

Fish oil, algal DHA, krill oil	Cardiovascular & cognitive support
CLA (conjugated linoleic acid)	Metabolic support & body toning
Vitamins A, D, E, K	Immune, bone & skin support
Beta-carotene	Antioxidant eye protection
CoQ10, PQQ	Cellular energy & healthy aging
Black seed oil, sea buckthorn oil	Balanced inflammation response
CBD oil	Relaxation & recovery support



RAPISOL® Chewable Gelatin

Types, pharmaceutical grade

RAW MATERIAL	Name of Gelatin Bloom, Type*	Gel Strength Bloom [g]	Viscosity 6.67%/60°C [mPas]	GELITA Production Country
BOVINE BONE	RAPISOL® Chewable Bovine Bone Gelatin, 220 Bloom, Type B	176 – 264	1.7 – 2.5	Germany
BOVINE BONE	RAPISOL® Chewable Bovine Bone Gelatin, 200 Bloom, Type B	160 – 240	1.7 – 2.5	US

CDMF
available

*Pretreatment: A (Acidic) or B (Basic)

Two technologies – *a world of opportunities*



RAPISOL® and RAPISOL® Chewable give manufacturers two distinct softgel technologies to address evolving market demands. RAPISOL® delivers fast, consistent fill release for applications where consumers expect immediate results – from pain relief to energy support. RAPISOL® Chewable, meanwhile, offers new format possibilities. By combining premium fill protection with a pleasant chew, it allows for the creation of enjoyable, on-the-go formats.

Both technologies are processed on standard softgel equipment, allowing manufacturers to leverage existing capacity while entering new categories and consumer segments. Turning this potential into a successful product, however, takes more than technology alone, and that's where the GELITA Pharma Institute (GPI) comes into play.



GPI promises expertise and dedicated support

The GELITA Pharma Institute is committed to the pursuit of future-proof solutions that help customers grow and excel. It's where we pool our long-standing expertise in gelatin science, successful product formulation, impactful marketing, regulatory knowledge and more. We work with you to create premium products with distinct competitive advantages. As a global innovation leader, GELITA is committed to pushing boundaries, breaking new ground and bringing innovative ideas to market. Our vision is to promote your growth with our passion, products and expertise.

Ready to unlock even more capsule performance

Learn more on www.gelitapharmainstitute.com contact our experts directly at pharma.institute@gelita.com

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